

## JAMES ISLAND PUBLIC SERVICE DISTRICT

1739 Signal Point Road  
Charleston, SC 29412  
Phone (843) 795-9060 / Fax (843) 762-5240

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### *Invitation for Bid*

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**DATE:** 10/21/2014

**SOLICITATION NUMBER:** 15-SW-01

**DESCRIPTION:** **27 CUBIC YARD REAR LOADER**

**OPENING DATE/TIME:** November 25, 2014 @ 2:00 PM  
**LOCATION:** Conference Room – Bldg 1  
1739 Signal Point Road  
Charleston, SC 29412

**DIRECT ALL INQUIRES TO:** Susan G. Gladden, Deputy Mgr./CFO  
Email: [gladdens@jipsd.org](mailto:gladdens@jipsd.org) or Fax: 843.762.5240

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#### Note(s) to Offerors:

- This solicitation does not commit the James Island Public Service District (the “District”) to award a contract, to pay any cost incurred in the preparation of applications submitted, or to procure or contract for the equipment.
- All bids must be submitted under sealed cover and *mailed* or *hand delivered* to:

<u><b>Mailing Address</b></u> James Island Public Service District Attn: James G. Game, AFO PO Box 12140 Charleston, SC 29422	<u><b>Physical Location</b></u> James Island Public Service District Attn: James G. Game, AFO 1739 Signal Point Road Charleston, SC 29412
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#### Sealed bid must be clearly marked on the outside:

- Offeror’s complete name & address, and
- Bid: 15-SW-01 Rear Loader

*Please only submit Part II. Bid Form (Pages 1 & 2) with bid.*

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**Part I. SPECIFICATIONS Bid #: 15-SW-01**

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It is the intention of these specifications to describe the minimum requirements for a REAR LOADING DESIGN REFUSE COLLECTION TRUCK BODY to be used within the Solid Waste department.

The bidder shall represent by his/her bid that all equipment is new and unused.

It is required that the unit shall be completely assembled, painted and ready for immediate operation.

Bidder shall complete every space in the specification by checking "Yes" to indicate if the item bid is exactly as specified. If not, the "No" column must be checked and a detailed description of the deviation from the specification may be supplied, using a separate page if necessary.

Omission of a detailed description or specification of any point shall be regarded as meaning that only the best commercial practice shall prevail and that only material of the first quality and correct type, size, and design are to be used.

**SPECIFICATIONS**  
**27 CUBIC YARD REAR REFUSE LOADER**

This specification describes the James Island Public Service District's requirements for a Rear Loading Refuse truck with a capacity of 27 Cubic Yards.

**Capacity:**

1. Minimum capacity of the body shall be 27 cubic yards exclusive of the hopper.
2. Minimum capacity of the hopper shall be 3.7 cubic yards without the use of a hopper loading sill extension

**Body Dimensions:**

1. Maximum overall width – 96 inches
2. Maximum overall length – 27 cubic yards 301 inches
3. Maximum height above the chassis frame – 96 inches
4. Inside width of the body – 90 inches at the widest point
5. Inside height of the body – 82.5 inches at the highest point
6. Minimum weight of the body and the tailgate(less special options) 27 cubic yards 16,400 lbs

**Body Construction:**

1. Minimum 50,000 PSI Steel
2. Roof, minimum 8 gauge steel, smooth floor without a trough for the ejection cylinder.
3. The body floor shall be fabricated from 7 gauge hi-tensile steel full width of the body.
4. Packer plate minimum 7 gauge steel
5. Hopper floor minimum 5/16" Algotuf 400. Minimum hardness of 400 HBW, 175 ksi tensile strength and 145 ksi yield strength steel.
6. Lower Hopper Sides shall be fabricated from 1/4" Algotuf 400.
7. Hopper loading width minimum 6 feet wide and 5 feet high
8. Hopper capacity 3.7 CuYd minimum by TBEA method w/ no extension to achieve rated capacity.
9. The overall height above the chassis when the tailgate is raised shall be less than 16 feet.
10. The tailgate seal shall extend a minimum of 50 inches up the body.
11. The rear steps shall be of bolt design with a minimum of 325 square inches per step.
12. The body's bulkhead shall be a minimum of 24" above the body floor to eliminate any splash over

<p>of leachates onto the back of the cab.</p> <p>13. A body side access door shall be located on the driver's side. The door shall be equipped with a spring loaded latch, access ladder and grab handles.</p> <p>14. Body ladder shall be provided to allow access to roof.</p>
<p><b><u>Packer Hydraulics:</u></b></p> <ol style="list-style-type: none"> <li>45 gallon baffled reservoir minimum. The reservoir shall be equipped with a filter, breather cap, sight glass, clean out cover 100 mesh suction filter, magnetic tank drain plug and gate valve at the suction outlet.</li> <li>Front mount hydraulic pump driven off of the truck engine's crankshaft.</li> <li>High efficiency front pump shall produce flow not less than 9 cubic inches per revolution. This produces full flow to the body hydraulics at a much lower engine RPM reducing fuel consumption and significantly reducing operating noise levels.</li> <li>3,200 psi maximum operating pressure.</li> <li>All hydraulic valves shall be sectional that would allow replacement of defective sections without replacement of the entire valve.</li> <li>Hydraulic hoses and tubes shall be secured by clamps as required to prevent damage from abrasion and vibration. Exposed hoses shall be covered to prevent abrasions and damage. All hydraulic hoses shall comply with the applicable S.A.E. specifications.</li> <li>Hoses steel reinforced with a burst ratio of 4:1 working pressure.</li> <li>Cycle time shall be a maximum of 20 seconds with a reload time of a maximum 14 seconds.</li> <li>The packing blade shall be mounted on 4 slide shoes incorporating replaceable UHMW Poly wear pads.</li> <li>The sweep blade shall have a stop above the hopper sill to prevent a pinch point.</li> <li>The packing blade cylinders minimum 5" bore x 2.5" rod and 5" bore and 2.5" rod sweep cylinders. Pack and sweep cylinders must be cushioned design to extend life.</li> <li>All packing and sweep cylinders shall be of cushioned design to minimize wear on packer components.</li> <li>The ejector panel shall be mounted on 4 high-density polyethylene wear shoes that shall be replaceable without removing the ejector panel from the body.</li> <li>The ejector panel shall hold pressure against the compacted material and be automatically advanced by the hydraulic load control valve without operator assistance.</li> <li>Tailgate lift cylinder minimum 3.5" diameter.</li> <li>All hydraulic cylinder rods to be chrome plated.</li> </ol>
<p><b><u>Packer Controls:</u></b></p> <ol style="list-style-type: none"> <li>The ejector and tailgate lift controls shall be mounted left front of the body. The packer controls shall be mounted curbside at tailgate.</li> <li>Provide for automatic acceleration of the engine to proper RPM from the tailgate for packing and manual throttle at the street side for ejection.</li> <li>The packing cycle shall be controlled by a two lever control system that allows the operator to start, stop and reverse the direction of any function at any point during the packing cycle.</li> <li>Levers to be positive action type.</li> <li>Controls for dual warning buzzers at the rear of the packer.</li> </ol>
<p><b><u>Packer Accessories:</u></b></p> <ol style="list-style-type: none"> <li>Nonskid corner steps on both sides</li> <li>Packer color to match cab color, minimum (2) two coats of primer and (2) two coats of high gloss enamel paint. Color to be <b>James Island Blue (Sample to be supplied after acceptance of successful bid)</b> and match chassis.</li> <li>Two (2) tool boxes to be installed by bidder for storage. Box minimum dimensions will be 36" long</li> </ol>

<p>and 18” deep. Boxes will be mounted on each side of the packer body.</p> <ol style="list-style-type: none"> <li>Ten (10) LED strobe lights, amber to be added for safety. Four (4) mounted at the top and bottom at the rear of the truck and four (4) mounted at the top and bottom at the front of the truck. Two strobing side markers on middle of body sides. A switch shall be installed in the cab for independent operation of these lights. Strobe lights must provide 360 degree coverage for safety.</li> <li>Storage rack for two (2) pitchforks and one (1) rake mounted on the packer body or tailgate. If tailgate mounted, must not interfere with riders and must include securing device to hold tools in place when tailgate raises.</li> <li>An electrical safety interlock shall be provided that will shut down the body hydraulics if the side access door is opened.</li> </ol> <p><b><u>Body Electrical:</u></b></p> <ol style="list-style-type: none"> <li>All electrical wiring shall be color coded and be protected in a braided harness or loom.</li> <li>Electrical harnesses shall be connected with a sealed aircraft type electrical connector.</li> <li>Electrical wires shall be stranded copper type with a SXL covering to remain flexible and resist deterioration.</li> <li>Electrical wires shall have function printed on the wire full length for easy identification</li> <li>Body electrical system shall be protected with its own ATO type fuse block,</li> <li>Clearance, backup, stop and directional lights shall be LED type, rubber grommet mounted with sealed light housings, lexan lenses, vibration resistant filaments, and unitized sealed quick</li> </ol> <p><b><u>Misc.</u></b></p> <ol style="list-style-type: none"> <li>Bidder must supply all published sales materials for the units offered with their bid.</li> <li>Successful bidder will supply all parts and service manuals for all equipment supplied under this bid.</li> </ol>
<p><b><u>Chassis Identification:</u></b></p> <p>Manufacturer: <u>Freightliner or equal</u></p> <p>Model: <u>M2 Class</u></p>
<p><b><u>Engine:</u></b></p> <ol style="list-style-type: none"> <li>345 hp Cummins ISL9 diesel engine.</li> <li>Heavy duty fan and radiator</li> <li>Vertical Exhaust pipe.</li> <li>Heavy Duty air cleaner.</li> <li>Alternator – 12 V, 130 amp minimum.</li> <li>Crankshaft adapter - Engine must include crankshaft adapter flange to power front mount hydraulic pump.</li> <li>Bumper Extension - Adequate room must be provided for front pump installation. If front pump will not fit behind standard bumper, truck chassis truck dealer will be responsible for providing front bumper extension from factory.</li> </ol>
<p><b><u>Transmission:</u></b></p> <ol style="list-style-type: none"> <li>Allison 3000 RDS or equal</li> </ol>
<p><b><u>Chassis:</u></b></p> <ol style="list-style-type: none"> <li>46,000 lb. rear axle</li> <li>16,000 lb. front axle</li> <li>Rear springs 46,000 lbs. capacity</li> <li>Front springs – 16,000 lbs. capacity</li> <li>Air brakes, cam type with automatic slack adjusters: 16.5 x 7 rear and 16.5 x 6 front</li> <li>Power steering.</li> <li>Front tires 315/80R22.5</li> <li>Rear tires 11R22.5</li> </ol>

9. 50 gallon fuel tank
10. Double channel frame with front tow hooks.
11. Cab to axle must be compatible with body.
12. Fire Extinguisher and Safety Triangles. A bracket for the fire extinguisher mounted on the packer body for storage.

**Cab:**

1. Conventional Type
2. Color: **JAMES ISLAND BLUE - METALLIC (Sample to be supplied after acceptance of successful bid)**
3. Required gauges: oil pressure, coolant temperature, ammeter, fuel level, air pressure, speedometer, engine hour meter and tachometer.
4. Dual electric windshield wipers and washer.
5. Air ride, high back driver's seat with vinyl seat covering.
6. 2 man passenger bench seat with vinyl seat covering.
7. Noise control cab insulation meeting federal requirements.
8. Cab entry grab handles
9. Cab Dome light.
10. Engine protection – automatic shut down.
11. Air horns.
12. Air conditioning.
13. Adjustable side windows.
14. Dual west coast mirrors
15. DOT approved back-up alarm.
16. AM/FM radio.

**Optional Equipment:** (Please price the following items separately. These items are NOT to be included in your base bid price)

1. Rear view safety camera. Shock and water resistant sealed camera lens. Flat screen 7" LCD monitor mounted in cab.
2. Leachate sump tank mounted under body to collect fluids in the body. Drain valve mounted on sump tank.
3. 5-year Extended Warranty

**Delivery time: 180 days after receipt of purchase order. \$50 per day penalty beginning after close of business on the 180<sup>th</sup> day.**

# JAMES ISLAND PUBLIC SERVICE DISTRICT

1739 Signal Point Road

Charleston, SC 29412

Phone (843) 795-9060 / Fax (843) 762-5240

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## *Part II. Bid Form*

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**DATE:** 10/21/2014  
**SOLICITATION NUMBER:** 15-SW-01  
**DESCRIPTION:** **27 Cubic Yard Rear Loader**  
**OPENING DATE/TIME:** November 25, 2014 @ 2:00 pm  
**LOCATION:** Conference Room – Bldg 2  
1739 Signal Point Road  
Charleston, SC 29412

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### **I. Base Bid + Any Sales Tax**

\$ \_\_\_\_\_

**F.O.B. Delivery:** Truck will be delivered to  
1739 Signal Point Road, Charleston, SC 29412.

**Number of days for delivery** \_\_\_\_\_

### **II. Optional Equipment**

- 1) Rear view safety camera. Shock and water resistant sealed camera  
lens. Flat screen 7" LCD monitor mounted in cab. \$ \_\_\_\_\_
  - 2) Leachate sump tank mounted under body to collect fluids  
in the body. Drain valve mounted on sump tank. \$ \_\_\_\_\_
  - 3) 5-year Extended Warranty \$ \_\_\_\_\_  
(Attach warranty details)
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### ***Deviations from Terms, Conditions, Provisions & Specifications***

**If you do not have any deviations, write "NONE."**

Item #	Description	Explain Differences

***I agree to abide by all the terms, conditions, provisions, and specifications of this bid; except those as listed above.***

**Repair and Service Requirements:**

1. The successful bidder will be able to supply all maintenance and normal wear within 24 hours and all major repair items within 72 hours. Unit will be delivered ready for operation.
2. State location of factory authorized parts and service facilities.  
Chassis: \_\_\_\_\_  
Full-time service & parts staff at that location: \_\_\_\_\_  
Body: \_\_\_\_\_  
Full-time service & parts staff at that location: \_\_\_\_\_
3. A list of 5 users in South Carolina using like equipment being specified must be provided.
4. Four (4) machine keys required
5. Two (2) sets of operator, service and parts manuals shall be provided for body.
6. One (1) set of operators manual.
7. A minimum of 3 hours on-site operator, safety and preventive maintenance training shall be provided by factory trained personnel from both body and truck chassis dealers.
8. Body Warranty: 12 months complete warranty & 36 month pack & sweep cylinder warranty against mfg. defects
9. Mobile On-site Service included in Body Warranty? \_\_\_\_\_
10. If not, specify mobile service travel charge to James Island PSD, per round trip. \$ \_\_\_\_\_

The undersigned, having fully familiarized itself with the information contained within this entire solicitation and applicable amendments, submits the attached response, and other applicable information to the District, which it verifies to be true and correct to the best of its knowledge. The undersigned further certifies that this response is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a response for the same materials, supplies or equipment, and is in all respects, fair and without collusion or fraud. The undersigned agrees to be bound by all conditions set forth in this solicitation and certifies it has signature authority to bind the company listed herein.

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**Company Name**

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**Printed Primary Contact Name**

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**Mailing Address**

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**Title**

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**Email**

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**City, State, Zip**

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**Telephone Number**

---

**Fax Number**

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**Date**

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**Authorized Signature**

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**Minority business: Are you a minority business?**

- ☐ **Yes** (Women-owned / Disadvantaged) If yes, please submit a copy of your certificate with your response.
- ☐ **No**